

# SLTE Miniature Electric Linear Actuator

**FESTO**



## **Positioning with Precision, Reliability and Space Savings**

SLTE is a compact precision linear actuator with an integrated motor. SLTE can be used for slow or fast dynamic motion sequences. The SLTE has a precision ball bearing guide and quiet lead screw drive. Its motor has an integrated encoder for feedback positioning. SLTE supports working loads up to 4 kg and provides fast positioning times (50 mm in approx. 400 ms).

## **Contaminated Environments**

With an IP54 rating, the external controller can be flexibly mounted either in the field or in a control cabinet.

## **Highly Compatible**

The SLTE provides a full range of interfaces as well as full compatibility with other modular handling and assembly systems. It is also compatible with all existing pneumatic SLT adapter kits.

## **Simply Select and Commission**

The SLTE concept includes installation options for supply lines, as well as teach-in positioning records for easy parameterization of contours.

## **Typical Applications**

- Handling applications requiring high repeatability
- Electronic assembly
- Semiconductor manufacturing
- High precision packaging tasks
- Laboratory automation

**SLTE.PSI.US**

Product Short Information

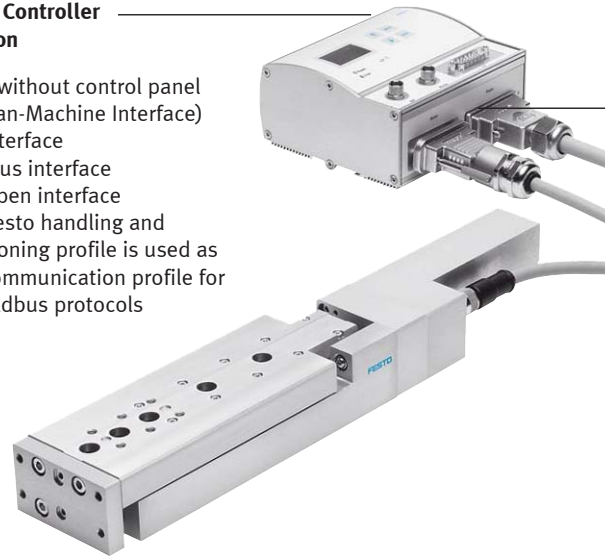
# SLTE Miniature Electric Linear Actuator

## Easy and Accurate Assembly and Installation

- The SLTE is mounted in exactly the same manner as the pneumatic SLT
- Through-holes from above or below
- Controller can be mounted directly next to the axis due to its IP54 rating
- Backwall mounting or DIN-rail mounting possible
- Controller is connected with the SLTE via a single cable
- All cables are suitable for chain link trunking
- Adapter facilities for energy supply conduits

## SFC-DC Controller Actuation

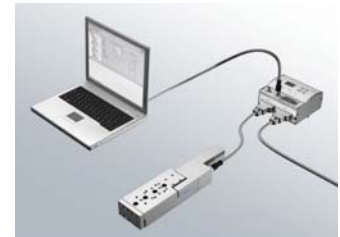
- With/without control panel (Human-Machine Interface)
- I/O interface
- Profibus interface
- CANopen interface
- The Festo handling and positioning profile is used as the communication profile for all fieldbus protocols



## Parameterization

### Parameterizing function and simple actuation via keyboard

- Positioning travel
- Teach-in mode
- Reference travel
- Basic parameterization



## Mechanical Data

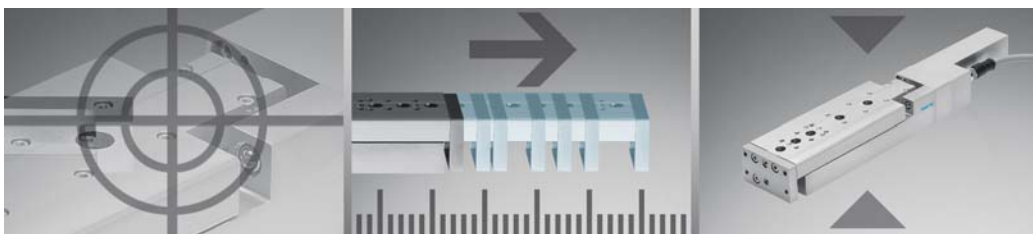
Size	10	16
Strokes [mm]	50, 80	50, 80, 100, 150
Drive principle	Lead screw	
Screw pitch [mm]	5.0	7.5
Max. Working load		
Horizontal operation [N]	14.70	39.22
Vertical operation [N]	4.90	19.61
Max. speed [mm/s]	170	210
Max. acceleration [m/s <sup>2</sup> ]	2.5	
Min. speed [mm/s]	2.0	
Positioning time for 50 mm stroke [ms]	400	
Max. working load for 170 mm/s		
Horizontal operation [N]	14.70	39.22
Vertical operation [N]	3.43	6.86
Repeatability [mm]	±0.05 mm	

## Convenient detailed parameterization using FCT software and RS232 interface

- Software and PC interface under Windows
- Positioning travel
- Teach-in mode
- Reference travel
- Basic parameterization
- Adjustment of controller parameters
- Trace function
- Interface configuration

## Electrical Data

Size	10	16
Position detection: DC motor with integrated encoder	512 pulses per revolution	1000 pulses per revolution
Reference travel	External sensors SME-10F/SMT-10F Metallic contact on housing	
Protective functions	I <sup>2</sup> t, overcurrent, overvoltage	
Operating voltage	PELV voltage 24 VDC	
Degree of protection of controller	IP54	



Precise

Reliable

Space-saving

Subject to change

For ordering and product assistance, or to find your nearest Festo Distributor in the USA,

**Call:** 1.800.99.FESTO  
**Fax:** 1.800.96.FESTO  
**E-mail:** customerservice@us.festo.com  
**Visit:** www.festo.com/us

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